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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/844,396	04/27/2001	Rabindranath Dutta	AUS920010108US1	1343
7590 11/16/2004			EXAMINER	
Duke W. Yee			CHAWAN,	SHEELA C
Carstens, Yee & Cahoon, LLP P.O. Box 802334			ART UNIT	PAPER NUMBER
Dallas, TX 75			2625	
		DATE MAILED: 11/16/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/844,396	DUTTA ET AL.
Office Action Summary	Examiner	Art Unit
	Sheela C Chawan	2625
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a repon. The areply within the statutory minimum of thirty period will apply and will expire SIX (6) MONTI statute. Cause the application to become ABA	(30) days will be considered timely. HS from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed on	12 July 2004.	•
- · - · · · · · · · · · · · · · · · · ·	This action is non-final.	
3) ☐ Since this application is in condition for al	lowance except for formal matter	s, prosecution as to the merits is
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.
Disposition of Claims	•	
4)⊠ Claim(s) <u>1-41</u> is/are pending in the application	ation	
4a) Of the above claim(s) is/are with		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-41</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	nd/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Exa	minor	
10) ☐ The drawing(s) filed on 12 July 2004 is/are		d to by the Evenines
Applicant may not request that any objection to	the drawing(s) he held in abeyance	See 37 CER 1 85(a)
Replacement drawing sheet(s) including the co	prrection is required if the drawing(s)	is objected to See 37 CFR 1 121(d)
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached (Office Action or form PTO-152
Priority under 35 U.S.C. § 119	•	
*		•
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	eign priority under 35 U.S.C. § 1	19(a)-(d) or (f).
1. Certified copies of the priority document	nents have been received	
2. Certified copies of the priority docum	nents have been received.	liantian Na
3. Copies of the certified copies of the	priority documents have been re	ceived in this National Stage
application from the International Bu	reau (PCT Rule 17.2(a)).	cerved in this redional stage
* See the attached detailed Office action for a	list of the certified copies not rea	ceived.
	•	
•		
Attachment(s)	_	
) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mary (PTO-413)
) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date		fail Date mal Patent Application (PTO-152)
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Response to Amendment

1. Applicant's amendment filed on 7/12/04 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1- 41 have been considered but are moot in view of the new ground(s) of rejection.

Drawings

3. The Examiner has approved drawings filed on 7/12/04.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-41 are rejected under 35 U.S.C. 102(b) as being anticipated by N.G. Bourbakis et al. (Intelligent Assistants for Handicapped People's Independence: Case Study --- IEEE- 7/96).

As to claims 1, 8,14-16, 23, 29 and 36, N.G. Bourbakis et al. disclose (abstract, lines 3-14) intelligent Assistants for Handicapped People's Independence in which images are captured in a 3-D surrounding environment by the user's command and converted or transcoded into a non-visual or verbal output. The system plays role of human assistant, which describes to the user the 3-D visual environment (section 1, 2.8.1).

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As to claims 2, 9, 17, 24, 30 and 37, N.G.Bourbakis et al. disclose the portable computer as shown in section 2-6 having all the important software tools that make the system function including receiving of depth map or 3-D surrounding environment data.

As to claims 3, 10, 18, 25, 31 and 38, see the rejections of claims 2, 9, 17, 24 and 37 above.

As to claims 4, 11, 19, 26, 32 and 39, N.G.Bourbakis et al. disclose the description of the surrounding scene (depth map) in which each object and its relationship with the other objects in the same scene would be represented by an equation inherently (see section 2.8.1).

As to claims 5, 12, 20, 27, 33 and 40, N.G.Bourbakis et al. disclose the audio output (see section 2.8.1, visual to audio conversion).

As to claim 7, 22 and 35, N.G.Bourbakis et al. disclose the method wherein the transcoding step comprises:

Transcoding a set of adjacent lines within the depth map (see section 2.8, transcoding a set of adjacent lines corresponds to conversion of text reading is done in a line by line manner or raster scanning).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 6, 13, 21, 28, 34 and 41, are rejected under 35 U.S.C. 103(a) as being unpatentable over N.G. Bourbakis et al. (Intelligent Assistants for Handicapped People's Independence: Case Study --- IEEE- 7/96) as applied to claims 1-6, 8-21, 23-34, and 36-41 above and further in view of Lynt et al. (US 5,636,038).

As to claims 6, 13, 21, 28, 34 and 41, N.G.Bourbakis et al. do not expressly disclose that the non-visual output is a tactile output. However, in the same field of endeavor, Lynt et al. disclose a system for converting visual images into tactile representations for use by a person who is visually impaired (see title; abstract and column 1, lines 30-35). Therefore, it would have been obvious to one of ordinary skill in the art to use Lynt et al's teaching to modify the system of N.G.Bourbakis et al. because tactile images are felt by the visually impair person and enable them to ascertain information by touch about the world around them that a sighted person would ascertain through vision (as shown by Lynt et al. at column 1, lines 43 - 46).

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Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheela C Chawan whose telephone number is 703-305-4876. The examiner can normally be reached on Monday - Thursday 8 - 6.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 703-308-5246. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sheela Chawan Patent Examiner Group Art Unit 2625 November 12, 2004